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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,631	09/16/2003	Daniel M. Joffe	72182CIP3	1917
27975	7590 05/03/2005		EXAMINER	
ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST P.A.			NGUYEN, DUC MINH	
1401 CITRU P.O. BOX 3	JS CENTER 255 SOUTH 791	ORANGE AVENUE	ART UNIT	PAPER NUMBER
ORLANDO	, FL 32802-3791		2643	
			DATE MAILED: 05/03/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	\
	10/663,631	JOFFE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Duc Nguyen	2643	
The MAILING DATE of this communic Period for Reply	cation appears on the cover sheet	with the correspondence address	./
A SHORTENED STATUTORY PERIOD FOTHE MAILING DATE OF THIS COMMUNION. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this community. - If the period for reply specified above, the maximum statement of the period for reply is specified above, the maximum statement. - Failure to reply within the set or extended period for reply when any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may inication. of days, a reply within the statutory minimum of utory period will apply and will expire SIX (6) Now it, by statute, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this communicat ABANDONED (35 U.S.C. § 133).	tion.
Status			
1) Responsive to communication(s) filed	ion .		
• •	b) This action is non-final.		
3) Since this application is in condition for closed in accordance with the practice	or allowance except for formal m	•	is
Disposition of Claims			
4) ☐ Claim(s) 1-13 is/are pending in the ap 4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,6 and 10 is/are rejected. 7) ☐ Claim(s) 2-5,7-9 and 11-13 is/are objected. 8) ☐ Claim(s) are subject to restrictions.	e withdrawn from consideration.		
Application Papers	•	·	
9)☐ The specification is objected to by the	Examiner.		
10) The drawing(s) filed on is/are:	a)☐ accepted or b)☐ objected	to by the Examiner.	
Applicant may not request that any object	ion to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including t 11) The oath or declaration is objected to			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority described copies of the	ocuments have been received. ocuments have been received ir f the priority documents have be al Bureau (PCT Rule 17.2(a)).	Application No en received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PT Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date	O-948) Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152)	

Application/Control Number: 10/663,631

Art Unit: 2643

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 6, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bliven et al (5,111,497) in view of Furse (6,868,357).

Consider claims 1, 6, 10. Bliven teaches a method of determining the location of a fault along a wire-line (column(s) 3, line(s) 29-62), serving digital subscriber equipment at a location remote (102 in associated with 108) with respect to a central office facility (112), the location of the fault being determined relative to a line card (line card LC 104 in associated with master control MC 418, fig(s). 4a) installed in the central office facility, the method comprising applying a line card electrical stimulus to the wire-line from the central office (e.g., transmitting digital signal over the twisted pair to the remote terminal; column(s) 3, line(s) 55 to column(s) 4, line(s) 2; column(s) 10, line(s) 32-65); at the line card, measuring a response of the wire-line to the electrical stimulus (e.g., means for evaluating a returned amount of noise or reflected signal so as to evaluate the function of the line card, the twisted pair and/or remote terminal; column(s) 3, line(s) 55-62) and generating an output from which the distance from the line card to the fault can be determined (column(s) 13, line(s) 23-30, line(s) 51-56; column(s) 15, line(s) 19-47; column(s) 20, line(s) 61 to column(s) 21, line(s) 4; column(s) 25, line(s) 65 to column(s) 28, line(s) 32), and processing the output generates by the line card to determine in which portion of

the wire-line the fault is located (column(s) 13, line(s) 23-30, line(s) 51-56; column(s) 15, line(s) 19-47; column(s) 20, line(s) 61 to column(s) 21, line(s) 4; column(s) 25, line(s) 65 to column(s) 28, line(s) 32).

Bliven does not teach measuring capacitance parameters of the wire-line in response to the electrical stimulus, and determining from the measured capacitance meters the distance from the line card to the open fault.

Furse teaches measuring capacitance parameters of the wire-line in response to the electrical stimulus, and determining from the measured capacitance parameters the distance from the line card to the open fault (see the entire abstract; column(s) 1, line(s) 18-29, line(s) 44-53; column(s) 2, line(s) 20-32; column(s) 3, line(s) 20-36) for the purposes of providing a FDR cable testing system that would enable detection of faults that are more difficult to detect than simple open and short circuits, namely cable fraying, wherein the fray may be shorted to ground or open to air (column(s) 2, line(s) 42-46).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the teachings of Furse into the teachings of Bliven for the purposes mentioned above.

Allowable Subject Matter

3. Claims 2-5, 7-9, 11-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Nguyen whose telephone number is (571)272-7503. The examiner can normally be reached on 7:00AM-3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kuntz Curtis can be reached on 571-272-7499. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Duc Nguyen Primary Examiner Art Unit 2643

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